

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/01911

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/37 G 01N 33/573

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

MEDLINE, BIOSIS, EPO-Internal, WPI Data, PAJ, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FERNANDO PASAN ET AL: "Caspase 3 activity is required for skeletal muscle differentiation" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 99, no. 17, 20 August 2002 (2002-08-20), pages 11025-11030, XP002278719 August 20, 2002 ISSN: 0027-8424 p.11025, section "Materials and Methods", paragraph "myoblast culture"; p.11028, left-hand column, second paragraph; p. 11030, last 8 lines. --- -/--	1-22



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

30 April 2004

Date of mailing of the international search report

09/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Jacques, P.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/01911

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ✓	<p>WU Z ET AL: "p38 and extracellular signal-regulated kinases regulate the myogenic program at multiple steps" MOLECULAR AND CELLULAR BIOLOGY, AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, US, vol. 20, no. 11, June 2000 (2000-06), pages 3951-3964, XP002251467 ISSN: 0270-7306 p. 3953, section "Inhibition of p38 activity prevents myotube formation".</p> <p>---</p>	1-22
X ✓	<p>ZERMATI Yael ET AL: "Caspase activation is required for terminal erythroid differentiation" JOURNAL OF EXPERIMENTAL MEDICINE, vol. 193, no. 2, 15 January 2001 (2001-01-15), pages 247-254, XP002278721 ISSN: 0022-1007 p.249, left-hand column, second paragraph to p. 250, right-hand column, l. 14; p. 253, last paragraph. abstract</p> <p>---</p>	1-22
P,X ✓	<p>MOGI MAKIO ET AL: "Activation of caspases is required for osteoblastic differentiation." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 278, no. 48, 28 November 2003 (2003-11-28), pages 47477-47482, XP002278720 ISSN: 0021-9258 p.47478, section "results", first two paragraphs; p. 47477, "Experimental procedures", paragraph "Material"; p. 47481, right-hand column, last paragraph.</p> <p>---</p>	1-22
P,X	<p>ALTURA R A ET AL: "Nuclear expression of Survivin in paediatric ependymomas and choroid plexus tumours correlates with morphologic tumour grade." BRITISH JOURNAL OF CANCER. ENGLAND 3 NOV 2003, vol. 89, no. 9, 3 November 2003 (2003-11-03), pages 1743-1749, XP002278722 ISSN: 0007-0920 abstract</p> <p>---</p>	1-22
P,X	<p>WO 03/093487 A (HARVEY RICHARD HANS ;VICTOR CHANG CARDIAC RES INST (AU); YEOH THOM) 13 November 2003 (2003-11-13) the whole document</p> <p>---</p> <p>-/--</p>	1-22

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/01911

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 981 708 A (LAWMAN PATRICIA D ET AL) 9 November 1999 (1999-11-09) the whole document ---	1-22
A	US 5 750 376 A (REYNOLDS BRENT ET AL) 12 May 1998 (1998-05-12) the whole document ---	1-22
A	SOMMER LUKAS ET AL: "Neural stem cells and regulation of cell number" PROGRESS IN NEUROBIOLOGY (OXFORD), vol. 66, no. 1, January 2002 (2002-01), pages 1-18, XP002278723 ISSN: 0301-0082 the whole document -----	1-22

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 4-9, 12-18 and 21 are directed to a method for modulating caspase-3 activity to modulate differentiation of stem cells thus modulating the fate of the said stem cells which can be used for therapeutic purpose (method of treatment of the human/animal body) the search has been carried out and based on the alleged effects of the compounds.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA 03/01911

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 03/01911

Patent document cited in search report		Publication date	Patent member		Publication date
WO 03093487	A	13-11-2003	WO	03093487 A1	13-11-2003
US 5981708	A	09-11-1999	US	5650299 A	22-07-1997
			AU	691529 B2	21-05-1998
			AU	7929994 A	01-05-1995
			CA	2173592 A1	13-04-1995
			EP	0724632 A1	07-08-1996
			JP	9506245 T	24-06-1997
			JP	3253966 B2	04-02-2002
			JP	2002155100 A	28-05-2002
			WO	9509912 A1	13-04-1995
			ZA	9407825 A	22-08-1995
US 5750376	A	12-05-1998	US	2003082515 A1	01-05-2003
			US	2003109008 A1	12-06-2003
			US	2003095956 A1	22-05-2003
			US	6071889 A	06-06-2000
			US	5981165 A	09-11-1999
			US	6399369 B1	04-06-2002
			US	6294346 B1	25-09-2001
			US	5980885 A	09-11-1999
			US	6497872 B1	24-12-2002
			US	5851832 A	22-12-1998
			US	2003049837 A1	13-03-2003
			AT	230795 T	15-01-2003
			AU	697894 B2	22-10-1998
			AU	8056194 A	29-05-1995
			CA	2175992 A1	18-05-1995
			WO	9513364 A1	18-05-1995
			CN	1141058 A	22-01-1997
			DE	69431993 D1	13-02-2003
			DE	69431993 T2	27-11-2003
			DK	728194 T3	22-04-2003
			EP	0728194 A1	28-08-1996
			ES	2189807 T3	16-07-2003
			FI	961855 A	04-06-1996
			JP	9507747 T	12-08-1997
			NO	961859 A	03-07-1996
			AT	208495 T	15-11-2001
			AU	714837 B2	13-01-2000
			AU	3515295 A	09-04-1996
			CA	2200709 A1	28-03-1996
			WO	9609543 A1	28-03-1996
			DE	69523771 D1	13-12-2001
			DE	69523771 T2	01-08-2002
			DK	783693 T3	14-01-2002
			EP	1130394 A1	05-09-2001
			EP	0783693 A1	16-07-1997
			ES	2167461 T3	16-05-2002
			FI	971168 A	20-03-1997
			JP	10505754 T	09-06-1998
			NO	971245 A	18-03-1997
			PT	783693 T	29-04-2002
			AU	716811 B2	09-03-2000
			AU	3836795 A	06-06-1996
			CA	2204630 A1	23-05-1996
			WO	9615226 A1	23-05-1996
			CN	1170435 A	14-01-1998

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 03/01911

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5750376	A	EP 0792350 A1	03-09-1997
		FI 971956 A	04-07-1997
		JP 10509592 T	22-09-1998
		NO 972171 A	07-07-1997
<hr/>			

THIS PAGE BLANK (USPTO)